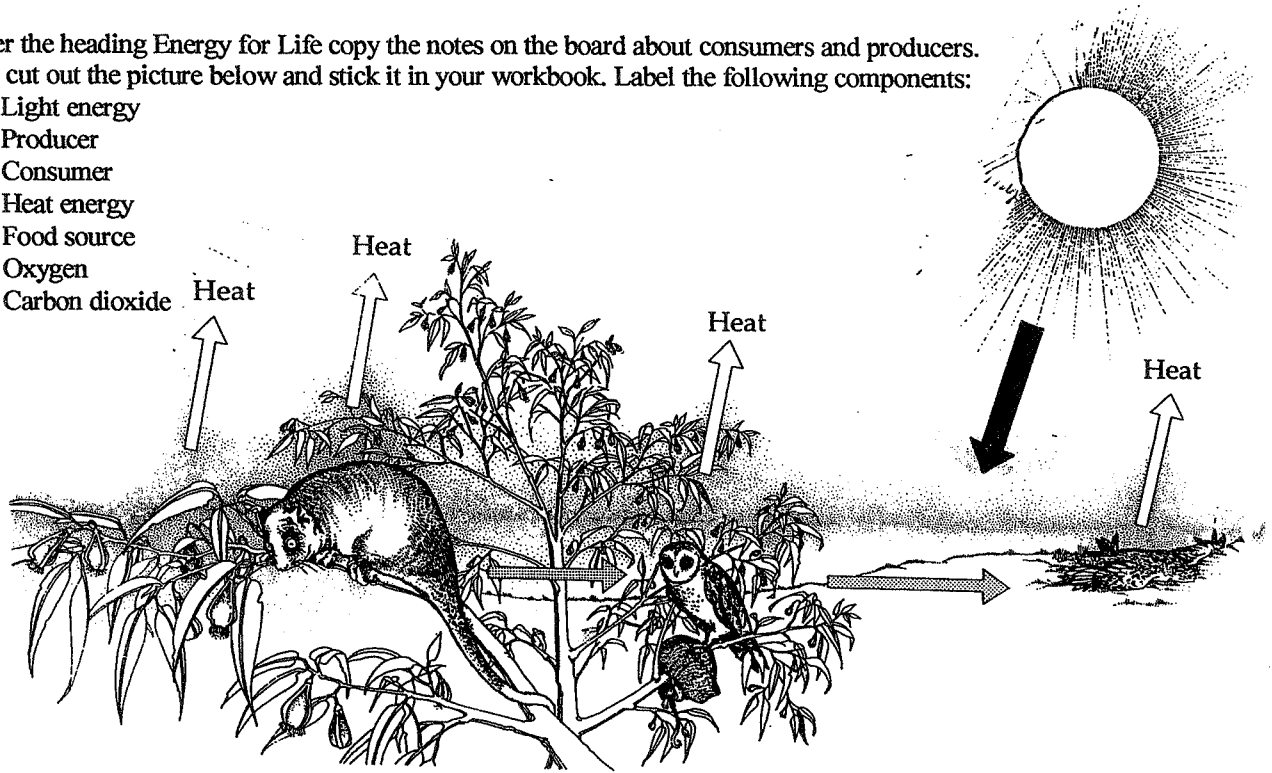


## Energy For Life

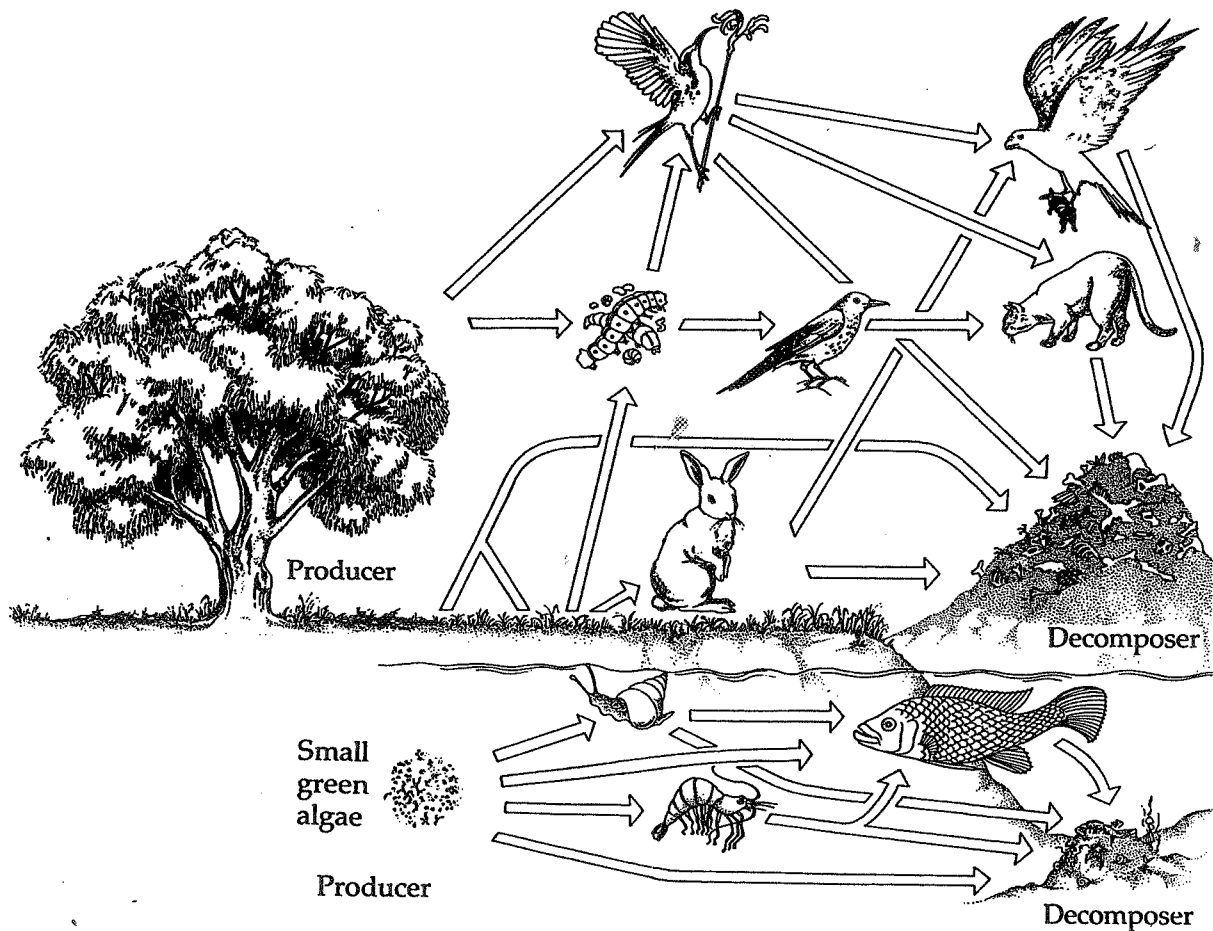
Under the heading Energy for Life copy the notes on the board about consumers and producers. Next cut out the picture below and stick it in your workbook. Label the following components:

- Light energy
- Producer
- Consumer
- Heat energy
- Food source
- Oxygen
- Carbon dioxide



Cut out and stick the following food chain in your workbook.

Answer the set of questions from the board under the heading: Food chains (in your workbook.)



## Energy Transformations: theory check

Please answer the following in the spaces below and return to your teacher before the end of the lesson.

1. If bromothymol blue turns yellow when carbon dioxide is added **what** colour change will occur when
  - a) you breathe in to water that has bromothymol blue in it?
  - b) a pondweed is undergoing photosynthesis ( remember the equation?)
2. Plants produce the initial energy for a food web because they use energy from the \_\_\_\_\_ in a process known as \_\_\_\_\_. This process makes carbohydrates (the food energy) and a gas : \_\_\_\_\_, which we need to live.
3. Give the **word** equation for the process of photosynthesis.
4. Give three examples of **producers**: \_\_\_\_\_
5. Give three examples of **consumers**: \_\_\_\_\_
6. Why do **consumers**, like humans, need to eat plant material to get energy, and not just simply use the energy from the sun?

